Laser Blade

Design iGuzzini **iGuzzini**

Last information update: October 2024

Product configuration: QQ72
QQ72: 10 - cell Frameless Recessed luminaire - LED - Warm white Wide Flood optic

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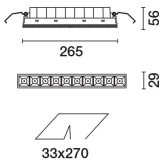
Technical description
rectangular miniaturised recessed luminaire with 10 optical elements with LED lamps - fixed optics - wide flood beam angle. Main body with die-cast aluminium radiant surface, minimal (frameless) version for mounting flush with the ceiling. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare . Warm white LED.

Installation
recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (12.5 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation hole 35 x 271

Colour
White (01) | Black (04)



Mounting
wall recessed|ceiling recessed

Complies with EN60598-1 and pertinent regulations

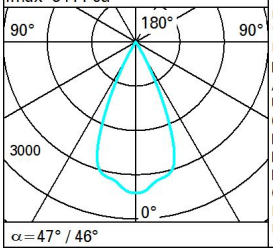
IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	1782	CRI (typical):	92
W system:	20	Colour temperature [K]:	3000
lm source:	2200	MacAdam Step:	3
W source:	20	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	89.1	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	47° / 46°	LED current [mA]:	700
CRI (minimum):	90		

Polar

Imax=3411 cd



CIE
nL 0.81
100-100-100-100-81
UGR <10-<10
DIN
A.61
UTE
0.81A+0.00T
F"1=1000
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

Lux

h	d	Em	Emax
2	1.7	694	853
4	3.5	173	213
6	5.2	77	95
8	7	43	53

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	70	67	65	69	66	66	64	78
1.0	76	73	71	69	72	70	70	67	83
1.5	80	78	76	74	77	75	74	72	89
2.0	83	81	79	78	80	78	78	75	93
2.5	84	83	82	81	82	81	80	78	96
3.0	85	84	83	83	83	82	81	79	98
4.0	86	85	85	84	84	84	82	81	99
5.0	87	86	86	86	85	84	83	81	100

UGR diagram

Corrected UGR values (at 2200 lm bare lamp luminous flux)

Riflect.: ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed crosswise					viewed endwise		
x	y										
2H	2H	0.5	0.9	0.7	1.2	1.4	0.5	0.9	0.7	1.2	1.4
	3H	0.3	0.8	0.6	1.0	1.3	0.3	0.8	0.6	1.0	1.3
	4H	0.3	0.7	0.6	1.0	1.3	0.3	0.7	0.6	1.0	1.3
	6H	0.2	0.6	0.5	0.9	1.2	0.2	0.6	0.5	0.9	1.2
	8H	0.2	0.5	0.5	0.8	1.2	0.2	0.5	0.5	0.8	1.2
	12H	0.1	0.5	0.5	0.8	1.1	0.1	0.5	0.5	0.8	1.1
4H	2H	0.3	0.7	0.6	1.0	1.3	0.3	0.7	0.6	1.0	1.3
	3H	0.1	0.5	0.5	0.8	1.1	0.1	0.5	0.5	0.8	1.1
	4H	0.0	0.3	0.4	0.7	1.1	0.0	0.3	0.4	0.7	1.1
	6H	-0.1	0.2	0.4	0.6	1.0	-0.1	0.2	0.4	0.6	1.0
	8H	-0.1	0.1	0.3	0.5	1.0	-0.1	0.1	0.3	0.5	1.0
	12H	-0.2	0.1	0.3	0.5	0.9	-0.2	0.1	0.3	0.5	0.9
8H	4H	-0.1	0.1	0.3	0.5	1.0	-0.1	0.1	0.3	0.5	1.0
	6H	-0.2	-0.0	0.3	0.4	0.9	-0.2	-0.0	0.3	0.4	0.9
	8H	-0.3	-0.1	0.2	0.4	0.9	-0.3	-0.1	0.2	0.4	0.9
	12H	-0.3	-0.2	0.2	0.3	0.8	-0.3	-0.2	0.2	0.3	0.8
12H	4H	-0.2	0.1	0.3	0.5	0.9	-0.2	0.1	0.3	0.5	0.9
	6H	-0.3	-0.1	0.2	0.4	0.9	-0.3	-0.1	0.2	0.4	0.9
	8H	-0.3	-0.2	0.2	0.3	0.8	-0.3	-0.2	0.2	0.3	0.8

Variations with the observer position at spacing:

S =			
	1.0H	6.8 / -21.9	6.8 / -21.9
	1.5H	9.7 / -22.0	9.7 / -22.0
	2.0H	11.7 / -22.2	11.7 / -22.2